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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HUMAN CHONDROITINASE GLYCOPROTEIN (CHASEGP), PROCESS FOR PREPARING THE SAME, AND PHARMACEUTICAL COMPOSITIONS COMPRISING THEREOF

(57) Abstract: The invention relates to the discovery of a novel Chondroitinase Glycoproteins (CHASEGP's), methods of manufacture, and potential uses in conditions where removal of chondroitin sulfates may be of therapeutic benefit. Chondroitinase Glycoproteins require both a substantial portion of the catalytic domain of the CHASEGP polypeptide and asparagine-linked glycosylation for optimal chondroitinase activity. The invention also includes carboxy-terminal deletion variants of CHASEGP that result in secreted variants of the protein to facilitate manufacture of a recombinant CHASEGP. Further described are suitable formulations of a substantially purified recombinant CHASEGP glycoprotein derived from a eukaryotic cell that generate the proper glycosylation required for its optimal activity. CHASEGP is useful for the degradation of glycosaminoglycans and chondroitin sulfate proteoglycans under clinical conditions where their removal is of therapeutic value.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40090

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12P21/06; C12N 9/00, 9/24, 1/20, 15/00; C07H 21/04 US CL : 435/69.1, 183, 200, 252.3, 320.1; 536/23.2, 23.4, 23.5; 424/94.1						
	International Patent Classification (IPC) or to both na					
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/69.1, 183, 200, 252.3, 320.1; 536/23.2, 23.4, 23.5; 424/94.1						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a		Relevant to claim No.			
x	Database GenBank, US National Library of Medicin CSOKA AB et al., May 2000. polypeptide is 100%		1-11, 16, 23-56			
х	Database GenBank, US National Library of Medicin WILSON R et al., November 1999. Polypeptide is	ne, (Bethesda, MD, USA) No.Q9Y6T9, 99.5% identical to SEQ ID NO:1.	1-11, 16, 23-56			
х	Database GenBank, US National Library of Medicin CARNINCI et al., June 2001. Polypeptide is 78.89		1-21, 25			
x	Database GenBank, US National Library of Medicine, (Bethesda, MD, USA) No.AF009010, CSOKA et al., October 1999. Polynucleotide is 100% identical to SEQ ID NO:3 and 100% identical to SEQ ID NO:4.					
х	Database GenBank, US National Library of Medicine, (Bethesda, MD, USA) No.AK014599, CARNINCI et al., November 1999. Polynucleotide is 100% identical to SEQ ID NO:4.					
	documents are listed in the continuation of Box C.	See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "A" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention						
"E" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone						
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"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed						
Date of the actual completion of the international search 24 November 2004 (24.11.2004) Date of mailing of the international search report 1 3 JAN 2005						
Name and mailing address of the ISA/US Authorized/officer Authorized/officer						
Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Mail Stop PCT, Atm: ISA/US Mail Stop PCT, Atm:						
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INTERNATIONAL SEARCH REPORT

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
X Y	Database GenBank, US National Library of Medicine, (Bethesda, MD, USA) No.Q9UL99, CSOKA et al., MAY 2000. Polypeptide is 100% identical to SEQ ID NO:6.	12-15, 23-56
<u>x</u> <u> </u>	Database GenBank, US National Library of Medicine, (Bethesda, MD, USA) No.Q9Y6T9, WILSON R et al., November 1999. Polypeptide is 99.5% identical to SEQ ID NO:6.	12-15, 23-56
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